

Grzegorz Gutowski, Ph.D.
Theoretical Computer Science,
Jagiellonian University,
ul. Łojasiewicza 6,
30-348 Kraków,
Poland
gutowski@tcs.uj.edu.pl
<http://www.tcs.uj.edu.pl/Gutowski>



Curriculum Vitae

Personal information

Born May 20, 1983, Kraków, Poland
E-mail gutowski@tcs.uj.edu.pl

Work

2015 – ... Theoretical Computer Science, Jagiellonian University, associate professor
2012 – 2015 Theoretical Computer Science, Jagiellonian University, assistant professor

Education

2006 – 2012 Ph.D. studies. Theoretical Computer Science, Jagiellonian University, Kraków
Graduated with merit after defending the thesis „[On-line choosability](#)”
2001 – 2006 M.Sc. studies. Institute of Computer Science, Jagiellonian University, Kraków
Graduated with merit after defending the thesis „[On-line coloring of \$k\$ -connected subgraphs](#)”
1997 – 2001 August Witkowski 5th High School in Kraków

Scientific Profile

Research Interests

- ▷ Graph Theory
- ▷ On-line Algorithms
- ▷ Approximation Algorithms
- ▷ Computational Complexity

Articles

- ▷ Lech Duraj, Grzegorz Gutowski, Jakub Kozik, „[A note on two-colorability of nonuniform hypergraphs](#)”, *Leibniz International Proceedings in Informatics*, 107:Paper 46 (2018), 13 p.
- ▷ Ming Han, Grzegorz Gutowski, Tomasz Krawczyk, Xuding Zhu, „[Defective 3-Colorability of Planar Graphs](#)”, *Electronic Journal of Combinatorics*, 25(2):Paper 34 (2018), 20 p.
- ▷ Grzegorz Gutowski, „[Every Plane Graph is Facially-non-repetitively \$C\$ -choosable](#)”, *Electronic Journal of Combinatorics*, 25(1):Paper 74 (2018), 13 p.
- ▷ Steven Chaplick, Grzegorz Guśpiel, Grzegorz Gutowski, Tomasz Krawczyk, Giuseppe Liotta, „[The Partial Visibility Representation Extension Problem](#)”, *Algorithmica*, 80(8) (2018), 2286–2323
- ▷ Grzegorz Guśpiel, Grzegorz Gutowski, „[Universal Targets for Homomorphisms of Edge-colored Graphs](#)”, *Journal of Combinatorial Theory, Series B*, 127 (2017), 53–64
- ▷ Grzegorz Gutowski, Patryk Mikos, „[Lower Bounds for On-line Interval Coloring with Vector and Cardinality Constraints](#)”, *Lecture Notes in Computer Science*, 10139 (2017), 325–335
- ▷ Steven Chaplick, Grzegorz Guśpiel, Grzegorz Gutowski, Tomasz Krawczyk, Giuseppe Liotta, „[The Partial Visibility Representation Extension Problem](#)”, *Lecture Notes in Computer Science*, 9801 (2016), 266–279
- ▷ Lech Duraj, Grzegorz Gutowski, Jakub Kozik, „[Chip Games and Paintability](#)”, *Electronic Journal of Combinatorics*, 23(3):Paper 3 (2016), 10 p.
- ▷ Grzegorz Gutowski, Jakub Kozik, Piotr Micek, Xuding Zhu, „[Lower Bounds for On-line Graph Colorings](#)”, *Lecture Notes in Computer Science*, 8889 (2014), 507–515

Scientific Profile (continued)

- ▷ Grzegorz Gutowski, „Mr. Paint and Mrs. Correct go fractional”, *Electronic Journal of Combinatorics*, 18(1):Research Paper 140 (2011), 8 p.
- ▷ Lech Duraj, Grzegorz Gutowski, „Optimal Orientation On-line”, *Lecture Notes in Computer Science*, 4910 (2008), 271–279

Manuscripts

- ▷ Grzegorz Gutowski, Konstanty Junosza-Szaniawski, Patryk Mikos, Adam Polak, Joanna Sokół, „Online coloring of short intervals”, arXiv:1802.09503
- ▷ Grzegorz Gutowski, Tomasz Krawczyk, Douglas West, Michał Zając, Xuding Zhu, „The slow-coloring game on outerplanar, planar, and k -degenerate graphs”, arXiv:1801.06754

Conferences

- ▷ Lech Duraj, Grzegorz Gutowski, Jakub Kozik, „A note on two-colorability of nonuniform hypergraphs”, ICALP 2018
- ▷ Grzegorz Gutowski, Patryk Mikos, „Lower Bounds for Online Interval Coloring with Vector and Cardinality Constraints”, SOFSEM 2017
- ▷ Steven Chaplick, Grzegorz Guśpiel, Grzegorz Gutowski, Tomasz Krawczyk, Giuseppe Liotta, „The partial visibility representation extension problem”, GD 2016
- ▷ Grzegorz Guśpiel, Grzegorz Gutowski, Tomasz Krawczyk, „Extending Partial Bar Visibility Representations is Hard”, CanADAM 2015
- ▷ Grzegorz Gutowski, „Avoiding Facial Repetitions”, FIT 2015
- ▷ Grzegorz Gutowski, Jakub Kozik, Piotr Micek, Xuding Zhu, „Lower Bounds for On-line Graph Colorings”, ISAAC 2014
- ▷ Lech Duraj, Grzegorz Gutowski, Jakub Kozik, „Chip Games and Paintability of Complete Multi-partite Graphs”, CSGT 2013
- ▷ Grzegorz Gutowski, „Mr. Paint i Mrs. Correct w sosie ułamkowym”, FIT 2011
- ▷ Grzegorz Gutowski, „Kolorowanie z list on-line”, FIT 2010
- ▷ Lech Duraj, Grzegorz Gutowski, „Optimal Orientation On-line”, SOFSEM 2008

Didactic Experience

- 2009 – ... Algorithms and Data Structures, Computer Networks, Mobile Programming, Team Project, courses at Jagiellonian University
- 2006 E-studia informatyczne – Author of „Computational Complexity” articles for e-learning platform created by Jagiellonian University, Warsaw University, Warsaw University of Technology and Poznan University of Technology. Articles available at http://wazniak.mimuw.edu.pl/index.php?title=Złożoność_obliczeniowa
- 2002 – ... Olympiad in Informatics – Juror, Organizer
- 2004 – 2007 Algorithmic program in 5th High School in Kraków – Lecturer
- 2004, 2005 Workshop on Mathematics and Informatics in 5th High School in Kraków – Lecturer
- 2005 Czech-Polish-Slovak Preparation Camp – Juror and Supervisor of Polish delegation

Other

- 2009 Editor of Michael Soltys’ book „An Introduction to Computational Complexity”

Projects

- NCN „On-line choosability” project funded by Polish National Science Centre for years 2012–2015 in SONATA funding scheme
- OBR Analysis and programming in R&D projects co-funded by Polish Ministry of Science and Higher Education and industry partners realized by Theoretical Computer Science, Jagiellonian University:
 - ▷ „Colonoscopy”
 - ▷ „Movement tracking in monitored zones”
 - ▷ „Automatic identification of vehicles by recognition of registration plates recorded on video streams”
- Satori Design and development of a system for running programming contests and automatic testing of student solutions on programming courses Project homepage: <https://satori.tcs.uj.edu.pl/>
- Dreamlab Analysis and programming in various areas for the biggest polish portal <http://www.onet.pl>

Passions

- Travel „All that is gold does not glitter, Not all those who wander are lost.” – J. R. R. Tolkien